Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended) A method of regulating adenovirus packaging comprising the steps of:
 (a) obtaining a helper adenovirus vector containing a first adenovirus packaging sequence comprising a repressor binding site;
- (b) obtaining a DNA delivery adenovirus vector comprising 5' and 3' inverted terminal repeats; a second adenovirus packaging sequence; a heterologous gene; and a promoter operatively linked to the heterologous gene;
- (c) propagating the helper adenovirus vector; and the DNA delivery adenovirus vector in a cell line; and
 - (d) propagating the DNA delivery adenovirus vector; and
 (e) repressing packaging of the helper adenovirus vector by a repressor which

binds to the repressor binding site contained in the helper adenovirus vector.

- 2. (previously amended) The method according to claim 1 wherein the repressor is COUP-TF.
- 3. (previously amended) The method according to claim 1 wherein the repressor is *lac* repressor.
- 4. (currently amended) The method according to claim 1, wherein the propagating step for the helper adenovirus occurs in a first cell-line thereby forming virus particles containing the helper adenovirus vector, and further comprising the additional steps of: transferring the virus particles to a second cell-line, and the repressing packaging of the helper adenovirus vectorstep

occurs in the second cell-line, wherein the repressing step further comprises a step selected from the group of steps consisting of:

- (a) endogenously expressing the repressor; and
- (b) transfecting a vector expressing the repressor.
- 5. (currently amended) The method according to claim 1 wherein the repressing step occurs in the cell-line of step (ed) and wherein the repressing step further comprises a step selected from the group of steps consisting of:
 - (a) endogenously expressing the repressor; and
 - (b) transfecting a vector expressing the repressor.
- 6. (previously amended) A helper adenovirus vector comprising an adenovirus packaging sequence containing a plurality of COUP-TF binding sites comprising an A repeat VI element.
- 7. (Currently Amended) A helper adenovirus vector comprising an adenovirus packaging sequence having at least two copies of 5'-TTTGN₈CG-3'(SEQ ID NO:1) and a plurality of COUP-TF binding sites[[,]] comprising an A repeat VI element.
- 8. (Original) An adenovirus vector according to claims 6 or 7 further comprising a heterologous gene for expression in a host.
- 9. (previously amended) A method of administering a replicant defective adenovirus to a mammal comprising the steps of:
- (a) packaging a DNA delivery adenovirus vector according to the method of claim 1;
 - (b) isolating the packaged DNA delivery adenovirus vector;
- (c) preparing the packaged DNA delivery adenovirus vector in a pharmaceutically acceptable carrier; and
- (d) administering the prepared and packaged DNA delivery adenovirus vector to said mammal.

10. (currently amended) A helper adenovirus vector comprising a packaging signal sequence consisting of at least two copies of 5'-TTTGN₈CG-3'(SEQ ID NO:1) and an A repeat VI element, wherein a repressor binding site flanks the packaging signal sequence.

11-12. (cancelled)

- 13. (previously amended) The helper adenovirus vector according to claim 10 wherein a repressor binding site alternates with the packaging signal sequence.
- 14. (previously amended) The helper adenovirus vector according to claim 10 having 3-12 copies of the packaging signal sequence.
- 15. (previously amended) The helper adenovirus vector according to claim 14 wherein a repressor binding site is located between packaging signal sequences.
- 16. (previously amended) The helper adenovirus vector according to claim 11 or 15 wherein the repressor binding site is a *lac* repressor binding site.
- 17. (previously amended) The helper adenovirus vector according to claim 11 or 15 wherein the repressor binding site is a E2F binding site.
- 19. (Currently Amended) The A method of administering a replicant defective adenovirus to a mammal according to claim 9comprising the steps of:
 - (a) packaging a DNA delivery adenovirus vector comprising the steps of:

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- (i) obtaining a helper adenovirus vector containing a first adenovirus packaging sequence comprising a repressor binding site;
- (ii) obtaining a DNA delivery adenovirus vector comprising 5' and 3' inverted terminal repeats; a second adenovirus packaging sequence; a

heterologous gene; and a promoter operatively linked to the heterologous gene;

- (iii) propagating the helper adenovirus vector and the DNA delivery adenovirus vector in a cell-line; and
- (iv) repressing packaging of the helper adenovirus vector by a repressor which binds to the repressor binding site contained in the helper adenovirus vector according to the method of claim 1;
- (b) isolating the packaged DNA delivery adenovirus vector;
- (c) preparing the packaged DNA delivery adenovirus vector in a pharmaceutically acceptable carrier; and
- (d) administering the prepared and packaged DNA delivery adenovirus vector to said mammal,

wherein step (a) is conducted with a helper adenovirus according to <u>any one of claims</u> 6, 7 or <u>and</u> 10.

- 20. (withdrawn) A composition comprising P complex.
- 21-37. (cancelled)
- 38. (new) The method according to claim 4, wherein the repressing step further comprises a step selected from the group of steps consisting of:
 - (a) endogenously expressing the repressor; and
 - (b) transfecting a vector expressing the repressor.

REMARKS

Applicants respectfully request favorable reconsideration in view of the herewith presented amendment and remarks.

Claims 1-10 and 13-19 are pending. Claim 38 has been added. Claims 11-12 and claims 21-37 have been cancelled. Claim 20 has been withdrawn as it is directed to a non-elected group.

The amendment to claim 1 was made in order to place claim 1 in better form.